

Notice of Allowability

Application No.

10/813,541

Applicant(s)

ASTON, MARK

Examiner

Hana A. Sanei

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an Amendment filed on 12/8/06.
2. ☒ The allowed claim(s) is/are 1,2,4-23 and 25-27.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

Response to Amendment

The Amendment, filed on 12/8/06, has been entered and acknowledged by the Examiner.

Cancellation of claim(s) 3, 24 has been entered.

Claim(s) 1-2, 4-23, 25-27 are pending in the instant application.

Allowable Subject Matter

A. Claim(s) 1 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record teaches a display device comprising a plurality of display tiles, each tile comprising a portion to support a display region incorporating an organic light emitting device material, the OLED material comprising a plurality of separately addressable pixel elements, wherein the portion is at a tilt angle to the main plane of the display, wherein: $\theta_c = \tan^{-1}[(\sqrt{l^2 + w^2})/3t]$; l being the tile length, w being the tile width and t being the tile thickness

However, the prior art of record neither shows nor suggests the tilt angle θ_c of less than 12° as set forth in Claim 1.

B. Claims 2, 4-23, 25-27 is allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record teaches a display comprising a plurality of display tiles, each tile comprising a portion to support a display region incorporating an Organic Light Emitting Device (hereinafter referred to as OLED) material with a plurality of separately addressable pixel elements, wherein the portion is at a tilt angle θ_c of less than 12° to

the main plane of the display, wherein: $\theta_c = \tan^{-1}[(\sqrt{l^2 + w^2})/3t]$, l being the tile length, w being the tile width and t being the tile thickness, the compound angle having a nonzero vertical tilt angle θ_v .

However, the prior art of record neither shows nor suggests the compound angle θ_c further having a nonzero horizontal tilt angle θ_h as set forth in Claim 2.

Claim 4-23, 25-27 are objected to because of their dependency status from claim 2.

C. Claim 28 is allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record teaches a display comprising a plurality of display tiles, each of said display tiles further including: a. a support member; b. a printed circuit board positioned on said support member; c. a panel having an OLED element operatively connected to said circuit board at a compound tilt angle θ_c to the main plane of the display for the printed circuit board to underlie part of another tile, the compound tilt angle θ_c comprising a non zero vertical tilt angle θ_v ; and d. wherein said display tiles are positioned in an overlapping array to form a substantially three-dimensional display.

However, the prior art of record neither shows nor suggests the compound tilt angle θ_c further comprising a nonzero horizontal tilt angle θ_h as set forth in Claim 28.

D. Claim 29 is allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record teaches a display comprising a plurality of display tiles, each of said display tiles further including: a. a support member; b. a an OLED element

operatively connected to said support member at a compound tilt angle θ_c to the main plane of the display, the compound tilt angle θ_c comprising a non zero vertical tilt angle θ_v ; and d. wherein said display tiles are positioned in an overlapping array to form a substantially three-dimensional display. However, the prior art of record neither shows nor suggests the compound tilt angle θ_c further comprising a nonzero horizontal tilt angle θ_h as set forth in Claim 29.

Claim(s) 30-36 are allowable because of their dependency status from claim 29.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hana A. Sanei whose telephone number is (571) 272-8654. The examiner can normally be reached on Monday- Friday, 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Application/Control Number:
10/813,541
Art Unit: 2879

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*/Hana A Sanei/
Examiner*

*/Joseph Williams/
Primary Examiner*